	Speed and Velocity
Read	d from Lesson 1 of the Circular and Satellite Motion chapter at The Physics Classroom: http://www.physicsclassroom.com/Class/circles/u6l1a.html
МО	P Connection: Circular Motion and Gravitation: sublevel 1
Rev	iew:  A quantity that is fully described by magnitude alone is a quantity. A quantity that is fully described by both magnitude and direction, is a quantity.  a. scalar, vector b. vector, scalar
2.	Speed is a quantity. Velocity is a quantity. a. scalar, vector b. vector, scalar c. scalar, scalar d. vector, vector State the equation for calculating the average speed of an object:
	o me are equinated are average operator and expects
Circ 4.	rular Motion:  An object that moves uniformly in a circle can have a constant but a changing
	a. speed, velocity b. velocity, speed
5.	The direction of a velocity vector is always Circle all that apply.  a. in the same direction as the net force that acts upon it  b. in the opposite direction as the net force that acts upon it  c. in the same direction as the object is moving  d. in the opposite direction as the object is moving  e none of these!
6.	True or False:
	The direction of the velocity vector of an object at a given instant in time depends on whether the object is speeding up or slowing down.
7.	For an object moving in uniform circular motion, the velocity vector is directed a. radially inwards towards the center of the circle b. radially outwards away from the center of the circle c. in the direction of the tangent line drawn to the circle at the object's location
8.	Use your average speed equation to determine the speed of (Given: Circumference = $2 \bullet PI \bullet R$ ) a a rider on a carousel ride that makes a complete revolution around the circle (diameter = $21.2$ -meter) in 17.3 seconds. <b>PSYW</b>
	b your clothes that are plastered to the wall of the washing machine during the <i>spin</i> cycle. The clothes make a complete revolution around a 61.9-cm diameter circle in 0.285 seconds. <b>PSYW</b>

9. A roller coaster car is traveling over the crest of a hill and is at the location shown. A side view is shown at the right. Draw an arrow on the diagram to indicate the direction of the velocity vector.

